**ANITA YADAV\_Assignment2019**

**Testing Concept 2**

**1.One of the fields on a form contains a text box which accepts numeric values in the range of 18 to 25. Identify the invalid Equivalence class.**

**a) 17**

**b) 19**

**c) 24**

**d) 21**

**Ans:**17

**2.Input Box should accept the Number 1 to 10. Identify Equivalence partitioning and Boundary values for testing**

**Ans:**

Equivalence Partitioning:

(-infinity to 0)(1 to 10)(11 to +infinity)

Boundary Value for testing:

0,1,9,10,11

**3.Why Equivalence & Boundary Analysis Testing is used?**

Equivalence Partitioning is used to reduce the total number of test cases to a finite set of testable test cases, still covering maximum requirements.It covers the wide range of values rather than only the boundary values.

Boundary value analysis is used to find the errors at boundaries of input domain rather than finding those errors in the center of input.

**4.Write Test Cases For This Scenario:**

**If A Job Fails It Should Get Restarted Again. This Should Happen For Three Times. If It Fails again, then It should quit**

**Test Case Id:1**

Condition: If Job doesn’t fail,

Expected:no need to restart, job is executed.

**Test Case Id:2**

Condition: If Job fails for first time,

Expected: it should restart, job is executed.

**Test Case Id:3**

Condition: If Job fails for second time,

Expected:it should restart, job is executed.

**Test Case Id:4**

Condition: If Job fails for third time,

Expected: it should restart, job is executed.

**Test Case Id:5**

Condition: If Job fails for fourth time,

Expected: it should quit, job is not executed.

**5.Write The Test Case/scenario For A Login Page?**

**TestCaseId1**.**Condition:**Verify valid username and password and press submit

**Expected:**login successful.

**TestCaseId2.Condition:** Verify invalid username and invalid password and press submit

**Expected:**login unsuccessful.

**TestCaseId3.Condition:**Verify invalid username and valid password and press submit

**Expected:**login unsuccessful.

**TestCaseId4.Condition:**Verify valid username and invalid password and press submit

**Expected:**login unsuccessful.

**TestCaseId5.Condition:**Verify empty fields and press submit

**Expected l**ogin unsuccessful.

**TestCaseId6.Condition:**Enter valid username and password press cancel

**Expected:**fields reset.

**TestCaseId7.Condition:**Enter valid username and invalid password press cancel ;

**Expected:**fields reset.

**TestCaseId5.Condition:**Enter invalid username and valid password press cancel

**Expected:**fields reset.

**6.What Are The Test Cases/scenario For Mouse? (To verify the functionalities of a mouse)**

**TestCaseId1**.**Condition:**Connect to the computer/laptops

**Expected:**Mouse Working

**TestCaseId2**.**Condition:**Left click of the mouse

**Expected:**Select and execute

**TestCaseId3**.**Condition:**Right click of the mouse

**Expected:**Show options

**TestCaseId4**.**Condition:**.Verify the time duration between two left clicks, in order to consider it as double click

**Expected:**mouse working

**TestCaseId5**.**Condition:**verify if scroll is present at the top or not

**Expected:**Mouse working

**TestCaseId5**.**Condition:**Verify the speed of mouse pointer

**Expected:**Mouse working

**TestCaseId7**.**Condition**:Check the pressure required for clicking the mouse buttons

**Expected:**Mouse working

**7.Write test cases/scenarios to verify the functionality of a printer?**

**TestCaseId1**.**Condition:**Connect wire of the printer to the electric socket

**Expected:**Printer Working

**TestCaseId2.Condition:**Connect to a computer system .

**Expected:**Printer Working

**TestCaseId3Condition:**Taking blank pages as an input resource

**Expected:**Printer Working

**TestCaseId4Condition:**Availability for both coloured and blank and white ink.

**Expected:**Printer Working

**TestCaseId5**.**Condition:**Correct command from the computer.

**Expected:**Print Correct Document

**TestCaseId5**.**Condition:**Incorrect command from the computer.

**Expected:**Should not print

**TestCaseId7**.**Condition:**Only single print for single command

**Expected:**Printer Working

**8.Write down test case/scenarios to list down possible steps to test a smart phone**

**TestCaseId1**.**Condition:**.Verify Splash screen appears while we on the phone.

**Expected:**Phone is Working the right way

**TestCaseId2**.**Condition:**Verify Power button available.

**Expected:**Phone is Working the right way

**TestCaseId3**.**Condition:**Verify Volume button available.

**Expected:**Phone is Working the right way

**TestCaseId4**.**Condition:**VerifyCamera and speaker is present .

**Expected:**Phone is Working the right way

**TestCaseId5**.**Condition:** VerifyOn pressing power button mobile phone should get off if its is on and vice versa

**Expected:**Phone is Working the right way

**9) There is a text box which accepts numbers from 1-10. List down the test data which needs to be tested for Boundary value analysis.**

(0,1,9,10,11)

**10) Suppose you have a bank account that offers variable interest rates:**

**5% for the first $1000 credit;**

**10% for the next $1000;**

**And 15% for the rest.**

**If you wanted to check that the bank was handling your account correctly what valid input partitions might you use?**

(0-1000),(1001-2000),(2000-infinity)

**11) A mail order company charges $2.95 postage for deliveries if the package weighs less than 2 kg, $3.95 if the package weighs 2 kg or more but less than 5 kg, and $5 for packages weighing 5 kg or more.**

**Generate a set of valid test cases using equivalence partitioning.**

**(**0to2),(2 to 5)and (5 to infinity)

**12) Boiling point of water is at 100 degrees Celsius. Determine the boundary values**

99.9,100,100.1

**13) Exam pass – for 40 marks; merit at 60 and above; and distinction at 80 and above.**

**Determine the boundary values**

Pass 39,40,41

Merit 59,60,61

Distinction 79,80,81

**14) Order numbers on a stock control system can range between 10000 and 99999 inclusive. Which of the following inputs might be a result of designing tests for only valid equivalence classes and valid boundaries:**

**a) 1000, 5000, 99999**

**b) 9999, 50000, 100000**

**c) 10000, 50000, 99999**

**d) 10000, 99999**

**e) 9999, 10000, 50000, 99999, 100000**

Ans: c 1000,50000,99999

**15) A program validates a numeric field as follows:**

**Values less than 10 are rejected, values between 10 and 21 are accepted, values greater than or equal to 22 are rejected. which of the following input values cover all of the equivalence partitions?**

**a. 10,11,21**

**b. 3,20,21**

**c. 3,10,22**

**d. 10,21,22**

Ans :c:3,10,22

**16.Which test cases are written first: white boxes or black boxes?**

Ans:Black box

**17) Can you explain requirement traceability and its importance?**

RTM is a document that maps and traces user requirement with test cases. The main purpose of **Requirement Traceability Matrix is to see that all test cases are covered so that no functionality should miss while doing Software testing.**

**Importance**

Requirement Traceability Matrix helps to link the requirements, test cases, and defects accurately.

The whole of the application is tested by having requirement traceability (End to End testing of an application is achieved).

Requirement Traceability Matrix aids for software application getting tested in the correct time duration, the scope of the project is well determined and its implementation is achieved as per the customer requirements and needs and cost of the project is well controlled.

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